

Claims

What is claimed is:

1. An indicator circuit for continuously verifying status of an electrical protection device, said device being energized by a power source and series connected between said power source and an electrical load to thereby form an electrical circuit, wherein said indicator circuit comprises a series resistor, a current responsive light emitting diode, and a ground, which are series arranged in that order and electrically connected to said formed electrical circuit at a junction between said electrical protection device and said electrical load.
2. The circuit of Claim 1 wherein said power source has alternating current.
3. The circuit of Claim 1 wherein said power source has direct current.
4. The circuit of Claim 1 wherein said light emitting diode is provided sufficient current to emit visible light by preselection of said resistor based upon voltage of the power source.
5. The circuit of Claim 1 wherein said light emitting diode is continuously illuminated if the electric protection device is intact and performing its intended function.
6. The circuit of Claim 1 wherein said light emitting diode is not continuously illuminated if the electric protection device is open and not performing its intended function.
7. The circuit of Claim 1 which does not modify the initial design parameters for the electrical load within the electrical circuit.

8. A complex electrical system comprised of a multiplicity of status indicator circuits of Claim 1 for electrical circuits of industrial sites, homes, businesses, and ground, air, and water transports.

9. An indicator circuit for continuously monitoring status of an electrical circuit having an electrical protection device therein to perform protective functions, comprises:

- a. said electrical protection device being series connected between a power source and at least one electrical load;
- b. said indicator circuit having an electrical interconnection to said electrical circuit at a junction between said electrical protection device and said load; and
- c. said indicator circuit including a resistor, a light emitting diode, and a permanent ground in series connection so current will continuously pass through said electrical circuit from the power source, to electrical protection device, to load, and simultaneously to said indicator circuit via said resistor, light emitting diode, and ground causing said diode to illuminate which will signal that said electrical protection device is intact and performing its intended function.